DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.28

WELDING INSPECTION REPORT

Resident Engineer: Pursell, Gary **Report No:** WIR-011294 Address: 333 Burma Road **Date Inspected:** 19-Oct-2009

City: Oakland, CA 94607

OSM Arrival Time: 700 **Project Name:** SAS Superstructure **OSM Departure Time:** 1900 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

CWI Name: CWI Present: Yes No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A Yes N/A N/A **Electrode to specification:** No **Weld Procedures Followed:** Yes No N/A N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A Yes No N/A **Approved Drawings:** Yes No **Approved WPS:** Yes No N/A **Delayed / Cancelled:**

34-0006 **Bridge No: Component:** Deck Panel

Summary of Items Observed:

Bridge No. 34-0006 Component: Deck Panels

Summary of Items Observed: On this day Caltrans OSM Quality Assurance (QA) Inspector Gary Richmond was present during the times noted above for observations relative to the fabrication of the SAS Superstructure being performed by Zhen Hua Port Machinery Company (ZPMC) at Chang Xing Island in Shanghai, China. QA Inspector observed and/or found the following:

On this date QA Inspector Gary Richmond gathered information compiled by the PAUT inspectors, regarding testing and inspections performed on Lifts 11 and 12 Deck Panels. This information was input into the master folders kept on the Caltrop "Team China" Z drive.

On this date QA Inspector Gary Richmond performed in-process inspections on the fit-up and welding of U-Rib stiffeners in Bay 9, in accordance with WPS-B-T-2342-U5.

On this date QA Inspector Gary Richmond performed in-process inspections on the fit-up and welding of U-Ribs to Deck Plate in Bay 9, in accordance with WPS-B-T-2342-U1.

QA Inspector performed Phased Array Ultrasonic Testing (PAUT) following the guide lines of UT procedure titled "Phased Array Ultrasonic Testing for the Detection and Sizing of Suspected Planar Discontinuities (Cracks) in PJP Welds, # UT 04-0120F4 PJP Rib Weld" after conventional UT was performed on tack welded areas of the Partial Joint Penetration (PJP) welds joining U-Ribs to Deck Plate. The Deck Panels examined are as follows:

WELDING INSPECTION REPORT

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DP428-001: 11 tack weld locations found compliant and 14 tack weld locations found non-compliant.

DP188-001: No Indications Observed.

On this date QA Inspector Gary Richmond was given ZPMC NDT Inspection Notification Sheet, Document No. 004426. This QA Inspector performed required Ultrasonic Testing (UT) of approximately 10% of the area previously tested and accepted by ZPMC Quality control personnel, on the following items listed for the OBG sub-assemblies in bay 9.

DP3046-001U-Rib stiffener: 150, 151, 160, 161, 170 and 171.

Tack weld locations found non-compliant are marked on U-Rib and Deck Plate for ZPMC's reference for repair. See Caltrans U-rib to Deck Panel- Tack Weld Assessment sheets dated 19th October, 2009 for further information on PAUT inspections.

Summary of Conversations:

No relevant conversations noted.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, who represents the Office of Structural Materials for your project.

Inspected By:	Richmond, Gary	Quality Assurance Inspector
Reviewed By:	Carreon,Albert	QA Reviewer